

PATENT COOPERATION TREATY

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From the
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

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To:
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PCT

WRITTEN OPINION

(PCT Rule 66)



Applicant's or agent's file reference		Date of Mailing (day/month/year)	18 SEP 2002
AIREX00.01		REPLY DUE	within 2 months/days from the above date of mailing
International application No.	International filing date (day/month/year)	Priority date (day/month/year)	
PCT/US01/43766	14 November 2001 (14.11.2001)	14 November 2000 (14.11.2000)	
International Patent Classification (IPC) or both national classification and IPC			
IPC(7): H02K 7/09 and US Cl.: 310/90.5			
Applicant			
AIREX CORPORATION			

1. This written opinion is the first (first, etc.) drawn by this International Preliminary Examining Authority.

2. This opinion contains indications relating to the following items:

- I ☒ Basis of the opinion
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Rule 66.2 (a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

3. The applicant is hereby **invited to reply** to this opinion.

When? See the time limit indicated above. ~~The applicant may, before the expiration of that time limit, request this Authority to grant an extension. See rule 66.2(d).~~

How? By submitting a written reply, accompanied, where appropriate, by amendments, according to Rule 66.3. For the form and the language of the amendments, see Rules 66.8 and 66.9.

Also For an additional opportunity to submit amendments, see Rule 66.4.
For the examiner's obligation to consider amendments and/or arguments, see Rule 66.4 *bis*.
For an informal communication with the examiner, see Rule 66.6

If no reply is filed, the international preliminary examination report will be established on the basis of this opinion.

4. The final date by which the international preliminary examination report must be established according to Rule 69.2 is: 14 March 2003 (14.03.2003).

Name and mailing address of the IPEA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703) 305-3230	Authorized officer DANG LE Telephone No. (703) 308-1782
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Benjamin Paist

WRITTEN OPINION

International application No.

PCT/US01/43766

I. Basis of the opinion

1. With regard to the elements of the international application:*

- ☒ the international application as originally filed
- ☒ the description:
 - pages 1-8 _____, as originally filed
 - pages NONE _____, filed with the demand
 - pages NONE _____, filed with the letter of _____.
- ☒ the claims:
 - pages 9-11 _____, as originally filed
 - pages NONE _____, as amended (together with any statement) under Article 19
 - pages NONE _____, filed with the demand
 - pages NONE _____, filed with the letter of _____.
- ☒ the drawings:
 - pages 1-6 _____, as originally filed
 - pages NONE _____, filed with the demand
 - pages NONE _____, filed with the letter of _____.
- ☒ the sequence listing part of the description:
 - pages NONE _____, as originally filed
 - pages NONE _____, filed with the demand
 - pages NONE _____, filed with the letter of _____.

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language _____ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the written opinion was drawn on the basis of the sequence listing:

- ☐ contained in the international application in printed form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☒ The amendments have resulted in the cancellation of:

- ☒ the description, pages NONE _____
- ☒ the claims, Nos. NONE _____
- ☒ the drawings, sheets/fig NONE _____

5. ☐ This opinion has been drawn as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed."

WRITTEN OPINION

International application No.
PCT/US01/43766

V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. STATEMENT

Novelty (N)	Claims <u>NONE</u>	YES
	Claims <u>1-26</u>	NO
Inventive Step (IS)	Claims <u>NONE</u>	YES
	Claims <u>1-26</u>	NO
Industrial Applicability (IA)	Claims <u>1-26</u>	YES
	Claims <u>NONE</u>	NO

2. CITATIONS AND EXPLANATIONS

Claims 1-26 lack novelty under PCT Article 33(2) as being anticipated by Osama et al. (6,034,456).

Regarding claim 1-18, Osama show the motor and magnetic bearing (Figs. 2-8) comprising a rotor with magnets (416, 418) and a stator comprising a plurality of controlled coil segments (434, 436, 432) magnetically coupled to the magnets.

Regarding claim 19-24, it is noted that Osama also show two integrated motor and magnetic bearing assemblies (412, 414) with a rotor having permanent magnets (416, 418) and a shaft (422).

Regarding claims 25 and 26, Osama shows the method recited.

ANY RESPONSE MAY BE FAXED TO:
OFFICE OF THE SPECIAL PROGRAMS EXAMINER
TECHNOLOGY CENTER 2800
(703) 305-0843

----- NEW CITATIONS -----
US 6,034,456 A (OSAMA et al) 07 March 2000 (07.03.2000), Figures 2-8.